



Alpha System



DATA SHEET



Alpha System

ALPHA M3 MID/HI

The ALPHA M3 is an advanced high power, high-Q Mid/Hi module that has the same form factor as the medium-Q M8, allowing user selectable dispersion characteristics appropriate to the application. The M3 uses two exponential horn loaded 10" MF drivers and a constant directivity horn loaded 3" HF driver giving 35° x 35° dispersion. Operated as a 2-way active system for ultimate performance and control, the ALPHA M3 has a usable frequency response of 190Hz-19kHz. Stacked or flown in arrays together with an ALPHA B1 Bass, the ALPHA M3 delivers outstanding performance as part of a precision, compact, large scale system.

The ALPHA System is a range of advanced technology modular, compact, high power loudspeaker modules tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events.

Like all NEXO products, ALPHA System components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

High power Mid/Hi module 145dB peak SPL @ 1m) using advanced co-axial waveguides with multipath phase devices.

Horn loaded 2 x 10" MF and 1 x 3" HF components on high-Q waveguide provide 35° x 35° dispersion for long throw applications, frequency response 190Hz- 19kHz.

Active 2-way operation with NX242 Digital TDcontroller ensures reliable, linear operation.

Baltic birch cabinet and high performance honeycomb composite construction.

Available in dark grey carpet covering or textured black paint.

Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.

Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.



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Alpha System

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains.

NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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PRODUCT FEATURES

Components	MF: 2x 10" (25 cm) 8 Ω 3" voice coil driver + Dual Ring Phase Plug, Composite Horns HF: 1x 3" titanium diaphragm ceramic driver + Coaxial Mount Waveguide
Height x Width x Depth	600 x 689 x 754mm (23 5/8" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 57kg(126lbs) With wheelboard: 64kg(141lbs)
Connectors	2x NL8MP 8-pole SPEAKON (In & Loop Thru) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON (to B1 & S2) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
Fittings: Handles	2 Metal Bar Handles
Front finish	Acoustic foam on perforated steel grille (77% transparent)
Flying Points & Fixed Installation	Crossbow Flying System cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links. Crossbow flying tracks can also receive standard aircraft fittings.

SYSTEM SPECIFICATIONS

ALPHA M3 with NX242 Digital TDcontroller

Frequency Response [a]	190Hz – 19kHz $\pm$ 3dB
Usable Range @-6dB [b]	150Hz – 20kHz
Sensitivity 1W @ 1m [b]	110dB SPL Nominal
Nominal Peak SPL @ 1m [b]	145dB Peak
Dispersion [c]	35° x 35°
Directivity Q & DI [c]	Q: 32 Nominal DI: 15 dB Nominal (f > 630Hz)
Nominal Impedance	MF: 12 Ω (15.5 min) HF: 12 Ω (8.0 min)
Recommended Amplifiers	MF: 650 to 900 Watts into 12 Ω HF: 350 to 500 Watts into 12 Ω

SYSTEM OPERATION

Electronic Controller	The ALPHA M3 Mid/Hi must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The ALPHA M3 Mid/Hi and B1 Bass can be used with or without the optional S2 SubBass. Active four-way operation with the S2 is provided with NX242 parameters.

SHIPPING & ORDERING

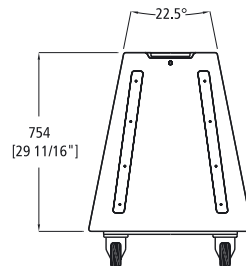
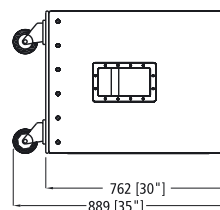
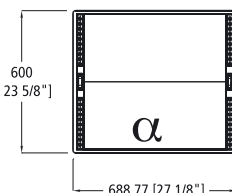
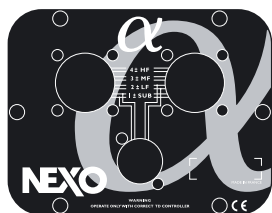
Ordering	M3 Mid/Hi carpet finished and ready to fly (without wheelboard) = Ref: AL.M3-CF. M3 Mid/Hi painted and ready to fly (without wheelboard) = Ref: AL.M3-PF.
Packaging	M3 Mid/Hi is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Wheelboard = Ref: AL.WB1.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.

[b] Sensitivity & Peak SPL data : will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified $\pm$ 3dB range. Data are for speaker + processor + recommended amplifier combinations.

[c] Directivity curves & data: 1/3 octave smoothed frequency response, normalised to On-Axis response. Data obtained by computer processing of off axis response curves.



LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.



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ALPHA M8 MID/HI

The ALPHA M8 is an advanced high power, medium-Q Mid/Hi module that has the same form factor as the high-Q M3, allowing user selectable dispersion characteristics appropriate to the application. The M8 uses two exponential horn loaded 10" MF drivers and a constant directivity horn loaded 3" HF driver giving 75° x 45° dispersion, the horn may be rotated with the wider dispersion in the horizontal or vertical plane. Operated as a 2-way active system for ultimate performance and control, the ALPHA M8 has a frequency response of 190Hz- 19kHz. Stacked or flown in arrays together with an ALPHA B1 Bass, the ALPHA M8 delivers outstanding performance as part of a precision, compact, large scale system.

The ALPHA System is a range of advanced technology modular, compact, high power loudspeaker modules tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, ALPHA System components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.



High power Mid/Hi module 143dB peak SPL @ 1m) using advanced co-axial waveguides with multipath phase devices.

Horn loaded 2 x 10" MF and 1 x 3" HF components on medium-Q waveguide provide 75° x 45° dispersion for medium throw applications, frequency response 190Hz-19kHz. User configurable, rotatable horn.

Active 2-way operation with NX242 Digital TDcontroller ensures reliable, linear operation.

Baltic birch cabinet and high performance honeycomb composite construction.

Available in dark grey carpet covering or textured black paint.

Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.

Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.



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PRODUCT FEATURES

Components	MF: 2x 10" (25 cm) 8Ω 3" voice coil driver + Dual Ring Phase Plug, Composite Horns HF: 1x 3" titanium diaphragm ceramic driver + Coaxial Mount Waveguide
Height x Width x Depth	600 x 689 x 754mm (23 5/8" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 57kg(126lbs) With wheelboard: 64kg(141lbs)
Connectors	2x NL8MP 8-pole SPEAKON (In & Loop Thru) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF), 3+ & 3- (MF), 4+ & 4- (HF) 1x NL4MP 4-pole SPEAKON (to B1 & S2) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
Fittings: Handles	2 Metal Bar Handles
Front finish	Acoustic foam on perforated steel grille (77% transparent)
Flying Points & Fixed Installation	Crossbow Flying System cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links. Crossbow flying tracks can also receive standard aircraft fittings.

SYSTEM SPECIFICATIONS

ALPHA M8 with NX242 Digital TDcontroller

Frequency Response [a]	190Hz – 19kHz ±3dB
Usable Range @-6dB [b]	150Hz – 20kHz
Sensitivity 1W @ 1m [b]	108dB SPL Nominal
Nominal Peak SPL @ 1m [b]	143dB Peak
Dispersion [c]	75° x 45° (Horn rotatable)
Directivity : Q & DI [c]	Q: 20 Nominal DI: 13 dB Nominal (f > 630Hz)
Nominal Impedance	MF: 12Ω (15.5 min) HF: 12Ω (8.0 min)
Recommended Amplifiers	650 to 900Watts MF, 350 to 500Watts HF into 12Ω

SYSTEM OPERATION

Electronic Controller	The ALPHA M8 Mid/Hi must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The ALPHA M8 Mid/Hi and B1 Bass can be used with or without the optional S2 SubBass. Active four-way operation with the S2 is provided with NX242 parameters.

SHIPPING & ORDERING

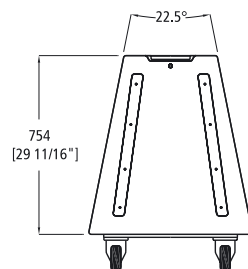
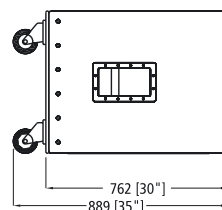
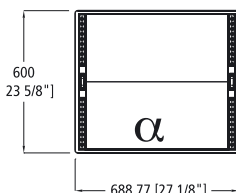
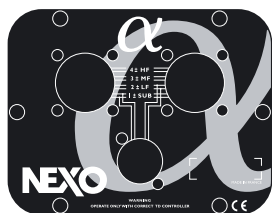
Ordering	M8 Mid/Hi carpet finished and ready to fly (without wheelboard) = Ref: AL.M8-CF. M8 Mid/Hi painted and ready to fly (without wheelboard) = Ref: AL.M8-PF.
Packaging	M8 Mid/Hi is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Wheelboard = Ref: AL.WB1.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.

[b] Sensitivity & Peak SPL data : will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified ±3dB range. Data are for speaker + processor + recommended amplifier combinations.

[c] Directivity curves & data: 1/3 octave smoothed frequency response, normalised to On-Axis response. Data obtained by computer processing of off axis response curves.



LIMITED WARRANTY

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Alpha System



ALPHA S2 SUBBASS

The ALPHA S2 is an advanced high power SubBass module that can be stacked or flown together in arrays with ALPHA M3, M8 and B1 and AlphaE Series cabinets.

The S2 uses two NEXO specified high power 18" long excursion LF drivers in a high efficiency resonator design combined with low speed port geometry to deliver low distortion, coherent output from 32Hz to 64Hz. The S2 provides optional VLF extension of the frequency response of AlphaE Series and ALPHA Systems to 32Hz.

The ALPHA System is a range of advanced technology modular, compact, high power loudspeaker modules tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events.

Like all NEXO products, ALPHA System components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

High power SubBass module (140dB peak SPL @ 1m) with 2 x 18" 6Ω long excursion LF drivers.

High efficiency, lightweight resonator design with low port speed geometry, usable frequency response 32Hz – 64Hz.

Active operation with NX242 Digital TDcontroller ensures reliable, linear operation.

Available in dark grey carpet covering or textured black paint.

Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.

Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.



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ALPHA S2 PRODUCT FEATURES

Components	2 x 18" (46cm) long excursion 6 Ω drivers; high efficiency acoustic load
Height x Width x Depth	1200 x 689 x 754mm (47" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 85kg (187lbs) with Wheelboard: 95kg (209lbs)
Connectors	1x NL4MP 4-pole SPEAKON Wiring: 1+ & 1- (VLF)
Construction	The self supporting MF/HF module is built from high performance honeycomb composites. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
Fittings: Handles	2 Metal Bar Handles
Front finish	Acoustic foam on perforated steel grille (77% transparent)
Flying Points & Fixed Installation	Crossbow Flying System cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links. Crossbow flying tracks can also receive standard aircraft fittings.

SYSTEM SPECIFICATIONS

ALPHA S2 with NX242 Digital TDcontroller

Frequency Response [a]	32Hz – 64Hz $\pm$ 3dB
Usable Range @-6dB [a]	29Hz – 180Hz
Sensitivity 1W @ 1m [b]	105dB SPL Nominal
Nominal Peak SPL @ 1m [b]	140dB Peak
Nominal Impedance	3 Ω (2.7 min)
Recommended Amplifiers	1800 to 2400Watts into 3 Ω

SYSTEM OPERATION

Electronic Controller	The ALPHA S2 must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The ALPHA S2 provides optional VLF extension for ALPHA B1/M3/M8 and AlphaE Series systems. Active operation of the S2 is included in NX242 control parameters.

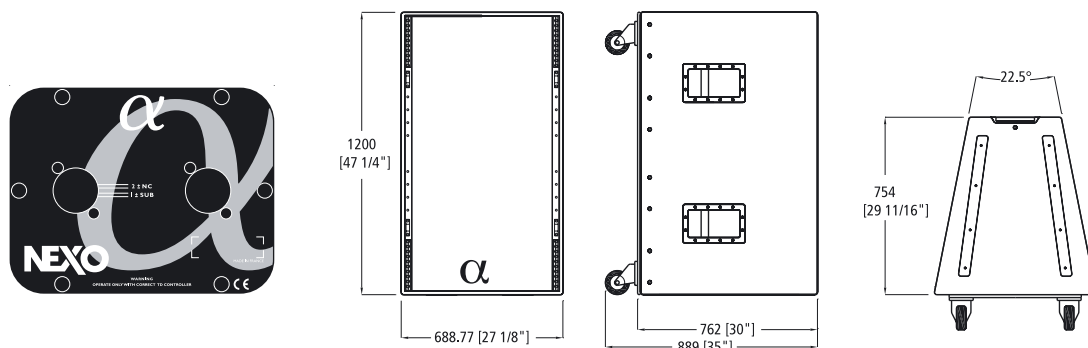
SHIPPING & ORDERING

Ordering	ALPHA S2 carpet finished and ready to fly (without wheelboard) = Ref: AL.S2-CF. ALPHA S2 painted and ready to fly (without wheelboard) = Ref: AL.S2-PF.
Packaging	ALPHA S2 is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	Crossbow Flying System, refer to the Crossbow specs. Wheelboard = Ref: AL.WB2.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data: Anechoic Far Field above 200Hz. Half-Space Anechoic below 200Hz. Usable Range Data: Frequency response capability with TD crossover slopes removed.

[b] Sensitivity & Peak SPL data: will depend on spectral distribution. Measured with band limited Pink Noise. Refers to the specified $\pm$ 3dB range. Data are for speaker + processor + recommended amplifier combinations.



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ALPHA B1-15 BASS

The ALPHA B1-15 is an advanced high power Bass module that can be stacked or flown together in arrays with Alpha M3, M8 and S2 cabinets. The B1-15 uses one NEXO specified high power 15" LF driver on an innovative internal flare component manufactured of rigid honeycomb composites. This high efficiency design delivers extremely low distortion, coherent bass output from 42Hz to 190Hz. The B1-15 is fully capable of operating without the S2 subbass in applications where extreme LF performance is not required.

The ALPHA System is a range of advanced technology modular, compact, high power loudspeaker modules tailored for a wide range of touring and installed sound reinforcement applications, from clubs and theaters to large scale live events. Like all NEXO products, ALPHA System components are designed to work with advanced electronic processors, guaranteeing consistent performance and reliability of the highest standard.

High power Bass module (140dB peak SPL @ 1m) using a composite curve flared horn loaded 1 x 15" 6Ω LF driver.

High efficiency, lightweight design, wideband frequency response 42Hz – 190Hz.

Active operation with NX242 Digital TDcontroller ensures reliable, linear operation.

High performance honeycomb composite curve construction.

Available in dark grey carpet covering or textured black paint.

Optional integrated flying system hardware for Crossbow flying system (see below left) or standard aircraft fittings.

Ergonomically designed for flying or ground stacking, easy touring handling and truck packs.



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ALPHA B1-15 PRODUCT FEATURES

Components	1 x 15" (38cm) 6Ω driver. Folded horn, composite curve.
Height x Width x Depth	600 x 689 x 754mm (23 5/8" x 27 1/8" x 29 11/16")
Shape	22.5° trapezoid
Weight	Net: 51kg (112lbs) With wheelboard: 58kg (128lbs)
Connectors	2 x 4-pole SPEAKON (In & Loop Thru) Wiring: 1+ & 1- (VLF), 2+ & 2- (LF)
Construction	Honeycomb composite curve. Baltic Birch Ply finished with dark grey carpet. Textured, polyurethane black paint coating also available.
Fittings: Handles	2 Metal Bar Handles
Front finish	Acoustic foam on perforated steel grille (77% transparent)
Flying Points	Crossbow Flying System cabinet hardware; 4 Flying Tracks on front (7 positions in 2.5° steps), top to bottom steel back plate, 4 Flying Tracks on back (Hinge Fixing), Internal top to bottom & left to right steel links.
Fixed Installation	Crossbow flying tracks can also receive standard aircraft fittings.

SYSTEM SPECIFICATIONS ALPHA B1-15 with NX242 Digital TDcontroller

Frequency Response [a]	Wideband: 42Hz – 190Hz ±3dB Xover: 80Hz – 190Hz ±3dB
Usable Range @-6dB [a]	39Hz – 600Hz
Sensitivity 1W @ 1m [b]	106dB SPL Nominal
Nominal Peak SPL @ 1m [b]	140dB Peak
Nominal Impedance	6Ω (5.2 min)
Recommended Amplifiers	900 to 1200Watts into 6Ω

SYSTEM OPERATION

Electronic Controller	The ALPHA B1-15 must be used with a NEXO NX242 Digital TDcontroller. Use without a properly connected Controller will result in poor sound quality and may damage the components.
SubBass	The ALPHA B1-15 Bass can be used with or without the optional S2 SubBass. Active four-way operation with the S2 is included in the NX242.

SHIPPING & ORDERING

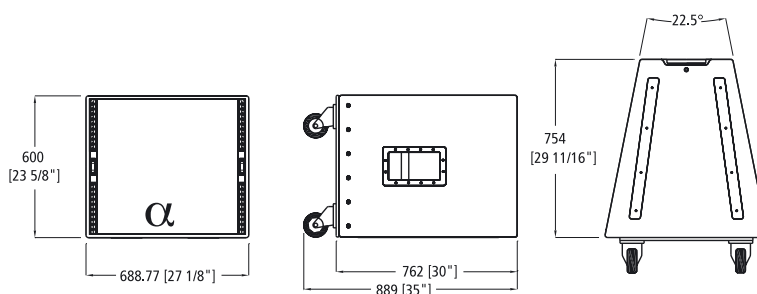
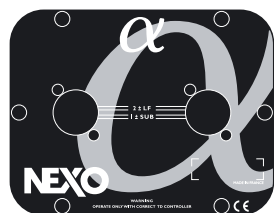
Ordering	ALPHA B1-15 carpet finished and ready to fly (without wheelboard) = Ref: AL.B115-CF. ALPHA B1-15 painted and ready to fly (without wheelboard) = Ref: AL.B115-PF.
Packaging	ALPHA B1-15 is sold as a single item and shipped as multiples thereof.
Shipping Weight & Volume	Packaging varies according to carpet or paint finish & quantity ordered. Please refer to your NEXO agent.
Accessories	

Crossbow Flying System, refer to the Crossbow specs. Wheelboard = Ref: AL.WB1.

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